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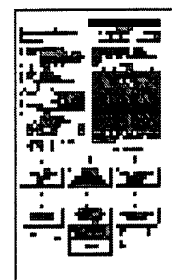
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NAKAMURA MITSUhide;**Assignee: **MEISHIN DENKI KK**
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Abstract:

PURPOSE: To prevent damage to agricultural crops due to bird and animal injuries by standing a tool for preventing the bird and animal injuries in fields similarly to a scarecrow, sensing the approach of birds or animals in the air or on the ground and producing a threatening sound or the threatening sound and a flash and driving away the birds and animals.

CONSTITUTION: This tool for preventing bird and animal injuries is constituted by installing a solar cell 1 in a hat of a doll body having an appearance and shape imitating a scarecrow and the interior formed into a hollow, providing an electric circuit substrate having a light sensor unit 7 capable of discriminating the day and night, an object sensor unit 5 and a sound producing unit 11 and a storage battery 2 charged with an electromotive force of the solar cell 1 in a substrate arranged in the doll body, operating a circuit of the light sensor unit 7 using the storage battery 2 as a power source so as to operate the object sensor unit 5 only in the daytime by sensing light with the light sensor unit 7, sensing the birds and animals with the detecting sensor 13 for detecting the object, thereby operating the circuit of the sound producing unit 11 using the storage battery 11 as the power source and producing a threatening sound from a speaker 12 connected to the sound producing unit 11.

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PREVENTING BIRD AND
ANIMAL INJURY**

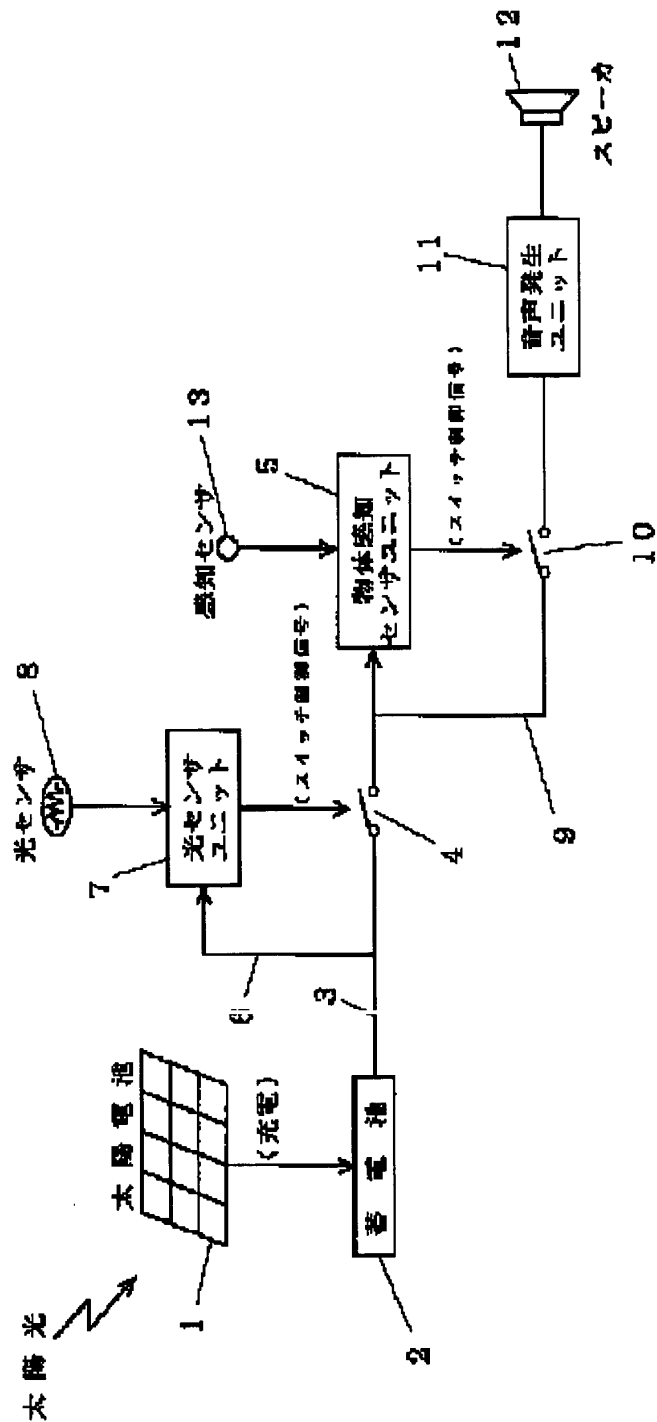
(57) Abstract:

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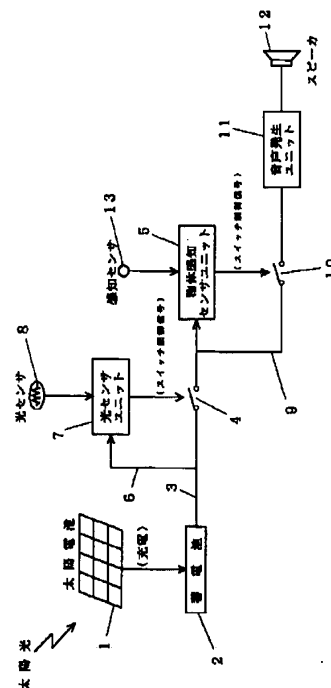
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(54) 【発明の名称】 鳥獣害防止具

(57) 【要約】

【目的】 かかしと同じように田畑に直立させて、空中や地上から鳥や獣が接近するのを感知して、威嚇音又は威嚇音と閃光とを発して追い払い、農作物の鳥獣害よりの被害を防止する。

【構成】 かかしに模した外形形状をなしかつ内部を中空に形成した人形体14の帽子15に太陽電池1を設けると共に人形体14内に設けた基板には、昼夜を判別する光センサユニット7と、物体感知センサユニット5と、音声発生ユニット11を具備した電気回路基板と、前記太陽電池1の起電力により充電される蓄電池2を設け、該蓄電池2を電源として前記光センサユニット7の回路を作動させ、該光センサユニット7が光を感知することで前記物体感知センサユニット5が昼のみ作動するようにして該物体を感知する感知センサ13が鳥獣を感知することで前記蓄電池2を電源として音声発生ユニット11の回路を作動させて、音声発生ユニット11に接続したスピーカ12より威嚇音を発せさせるように構成した。



【特許請求の範囲】

【請求項1】 かかしに模した外観形状をなしかつ内部を中空に形成した人形体の頭部に太陽電池を設けると共に該人形体内に設けた基板には、昼夜を判別する光センサユニットと、物体感知センサユニットと、音声発生ユニットを具備した電気回路基板と、前記太陽電池の起電力により充電される蓄電池を設け、該蓄電池を電源として前記光センサユニットの回路を作動させ、該光センサユニットが光を感知することで前記物体感知センサユニットの回路が昼のみ作動するようにして、人形体の一部に設けた感知センサが鳥獣を感知することで前記蓄電池を電源として音声発生ユニットの回路が作動し、音声発生ユニットに接続したスピーカより威嚇音を発声させるように構成した鳥獣害防止具。

【請求項2】 かかしに模した外観形状をなしかつ内部を中空に形成した人形体の頭部に太陽電池を設けると共に該人形体内に設けた基板には、昼夜を判別する光センサユニットと、物体感知センサユニットと、音声発生ユニット及び発光ユニットを具備した電気回路基板と、前記太陽電池の起電力により充電される蓄電池を設け、該蓄電池を電源として前記光センサユニットの回路を作動させ、該光センサユニットが光を感知することで前記物体感知センサユニットが昼のみ作動するようにして、人形体の一部に設けた感知センサが鳥獣を感知することで前記蓄電池を電源として音声発生ユニット及び発光ユニットの回路が作動し、音声発生ユニットに接続したスピーカーより威嚇音を発声させると共に、発光ユニットに接続した発光体より閃光を発生させるように構成した鳥獣害防止具。

【請求項3】 物体を感知する感知センサを人形体の頭部或いは胴部に複数取り付けようにした請求項1又は請求項2に記載の鳥獣害防止具。

【発明の詳細な説明】

【0001】

【産業上の利用分野】本発明は、田畑や果樹園等に野鳥や、野猿、狐、狸、猪等の獣が飛来したり接近して作物を荒らすのを防止するために使用する鳥獣害防止具に関するものである。

【0002】

【従来の技術】従来から、鳥獣をおどしてその被害を防ぐために田畑にかかしを立てたりすることが行なわれているが、これらのかかしはただ立っているだけであるから人の形はしていても人でないことを見透かして、鳥獣は恐れることなく無視して接近してくる。また、このようなかかしとは別に風車を回転させたりして鳥獣を威嚇することも行なわれているが、あまり効果を発揮していない。

【0003】

【発明が解決しようとする課題】そこで本発明はこのような従来技術にかんがみてなされたものであって、かかしに威嚇音や閃光を発生させるようにすることによりかかしを擬人化し、その相乗作用によって鳥獣の飛来や接近を防止し、しかも夜間には威嚇音や閃光を発生させないようにして民家に対して騒音や光による公害問題を発生することのないようにした鳥獣害防止具を提供することを目的としている。

【0004】

【課題を解決するための手段】かかる目的を達成するために本発明に係わる鳥獣害防止具は、かかしに模した外観形状をなしかつ内部を中空に形成した人形体の頭部に太陽電池を設けると共に該人形体内に設けた基板は、昼夜を判別する光センサユニットと、物体感知センサユニットと、音声発生ユニットを具備した電気回路基板と、前記太陽電池の起電力により充電される蓄電池を設け、該蓄電池を電源として前記光センサユニットの回路を作動させ、該光センサユニットが光を感知することで前記物体感知センサユニットの回路が昼のみ作動するようにして、人形体の一部に設けた感知センサが鳥獣を感知することで前記蓄電池を電源として音声発生ユニットの回路が作動し、音声発生ユニットに接続したスピーカより威嚇音を発声させるように構成している。

【0005】また、かかしに模した外観形状をなしかつ内部を中空に形成した人形体の頭部に太陽電池を設けると共に該人形体内に設けた基板には、昼夜を判別する光センサユニットと、物体感知センサユニットと、音声発生ユニット及び発光ユニットを具備した電気回路基板と、前記太陽電池の起電力により充電される蓄電池を設け、該蓄電池を電源として前記光センサユニットの回路を作動させ、該光センサユニットが光を感知することで前記物体感知センサユニットの回路が昼のみ作動するようにして、人形体の一部に設けた感知センサが鳥獣を感知することで前記蓄電池を電源として音声発生ユニット及び発光ユニットの回路が作動し、音声発生ユニットに接続したスピーカーより威嚇音を発声させると共に、発光ユニットに接続した発光体より閃光を発生させるように構成している。

【0006】また、前記物体感知センサを人形体の頭部或いは胴部に複数取り付けように構成している。

【0007】

【作用】物体を感知する感知センサは、光センサユニットが光を感知する間作動して、物体感知センサユニットの感知センサが鳥獣を感知すると音声発生ユニットの回路を作動させてスピーカより威嚇音を発して鳥獣を追い払う。そして、夜間は光センサユニットの回路がオフとなり音声発生ユニットの電源を自動的に遮断して騒音の発生を防止する。

【0008】また、物体を感知する感知センサは、光センサユニットが光を感知している間作動しているため、感知センサが鳥獣を感知すると音声発生ユニット及び発光ユニットの回路を作動させて威嚇音と閃光とを発して

鳥獣を追い払う。そして、夜間は光センサユニットの回路はオンしないため音声発生ユニット及び発光ユニットの電源は自動的に遮断して、スピーカ音や閃光の発生を停止して民家に対する騒音公害を防止する。

【0009】また、物体を感知する感知センサを人形体の頭部或いは胴部に複数配設することで、異なる方向から飛来する鳥や獣を見逃がすことなく感知して、威嚇音と閃光とを発生させて鳥獣よりの被害を防止する。

【0010】

【実施例1】以下に本発明の一実施例を図面と共に説明する。図2は図1に示す鳥獣害防止具Tの回路ブロック図である。図2において1は太陽光を集約する太陽電池であり、該太陽電池1の起電力により太陽光が蓄電池2に蓄電される。該蓄電池2に接続した物体感知回路3にオン・オフ作動するスイッチ4を介して物体感知センサユニット5を接続する。さらに、物体感知回路3の中間にスイッチ4を介して光センサ回路6を設けて光センサユニット7を接続している。該光センサユニット7には、昼夜を判別する光センサ8を接続して、該光センサ8が一定量の光量を検知することによって光センサユニット7の回路を作動させて該光センサユニット7から指令するスイッチ制御信号で前記スイッチ4をオン作動させるようにしている。

【0011】さらに前記物体感知回路3のスイッチ4と物体感知センサユニット5の中間に音声発生回路9を設け、該音声発生回路9にオン・オフ作動するスイッチ10を介して音声発生ユニット11を接続し、該音声発生ユニット11にスピーカ12を接続する。前記物体感知センサユニット5の感知センサ13が鳥獣を検知すると物体感知センサユニット5の回路が作動し、感知センサ13から指令するスイッチ制御信号で前記スイッチ10をオン作動させて音声発生ユニット11の回路を作動させて、スピーカ12より音声を発生させて鳥獣を威嚇して追い払い、寄せつけないようにする。前記音声は複数の鳥や猛獣の鳴き声を合成して作られることにより効果を発揮する。

【0012】また、夜間等の暗いときは光センサ8が光を検知しないため光センサユニット7の回路はオンせず、スイッチ制御信号を発信しないためにスイッチ4がオフとなり、回路9は遮断された状態となり音声発生ユニット11に接続されたスピーカ12から音声を発生しないため夜間に騒音を発生することはない。なお、図2において電源として蓄電池2を使用しているが、図示しない太陽光電池以外の電源により蓄電池2の電圧低下を補うようにしている。

【0013】図1は図2に回路ブロック図として示したものを一体的に内装してユニット化した鳥獣害防止具Tの外観を示す。かかしに模した外観形状をなし、かつ内部を中空に形成した人形体14の頭部には帽子15を被せ、この帽子15の頂部に太陽電池1を取り付け、さら

に帽子15及び人形体14の胴部23の適宜個所に位置と方向を違えて物体を検知する感知センサ13を複数取り付けると共に帽子15に光センサ8を設ける。また、人形体14の顔15'の口16に相当する位置にスピーカ12を人形体14の内面よりビスで取り付けられている。そして、人形体14の中空内部に設けられた基板に蓄電池2と、物体感知回路3、光センサ回路6及び音声発生回路9からなる回路ユニットが配設される。このように構成される鳥獣害防止具Tは、人形体14の下端に突設した杭17を地中に突き刺して直立させ、使用される。

【0014】そして、空中を飛来して接近する鳥等は人形体14の帽子15に上向きに取り付けた複数の物体を検知する感知センサ13の何れかが感知し、また、地面上を接近してくる獣等は人形体14に下向きに設置した複数の物体を検知する感知センサ13の何れかが感知し、感知した感知センサ13の指令によりスイッチ制御信号でスイッチ10をオン作動させ、音声発生ユニット11の回路を作動させてスピーカ12から威嚇音を発生し、その音声中で鳥獣を威嚇して追い払い、農作物を荒らす鳥獣の被害を防止する。

【0015】また、帽子15に設けた光センサ8は、太陽の光を検知して、光センサユニットを作動させ昼間のみ物体感知回路3のスイッチ4をオンするため、光センサ8からの指令により光を検知し、飛来する鳥獣を検知センサ13で感知してスピーカ12より音声を発生させるが、夜間になると、光センサ8は、光を検知しないため物体感知回路3のスイッチがオフとなり、音声発生ユニット11が作動しないため、スピーカ12が音声を発生しないため夜間の騒音を防止される。

【0016】

【実施例2】図4は図2に示した鳥獣害防止具T'の回路ブロック図であり、この回路ブロック図で符号1ないし13を付した部分は前記図2に示した回路ブロック図と同一に構成されており、ここでの説明は省略する。図4では音声発生回路9のスイッチ10と音声発生ユニット11の中間でさらに発光回路18を設け、該発光回路18に発光ユニット19を接続し、該発光ユニット19にキセノン球等を使用した発光部20を接続している。

【0017】この鳥獣害防止具T'は前記鳥獣害防止具Tと同様の外観のかかしに模した人形体14の頭部に被せた帽子15の頂部に太陽電池1を取り付け、さらに、帽子15及び胴部23の一部の適宜個所に位置と方向を違えて物体を検知する感知センサ13を複数取り付けると共に帽子15に光センサ8を設ける。また、人形体14の顔15'の口16に相当する位置にスピーカ12が人形体14の内部よりビスにより取り付けられている。そして、帽子15のつば21、目22及び人形体14の胴体の一部23には発光部20を取り付ける。そして、また、人形体14の中空内部に設けられた基板に蓄電池

2と、物体感知回路3、光センサ回路6、音声発生回路9及び発光回路18からなる回路ユニットが配設される。

【0018】そして、鳥獣害防止具T'は図3に示す状態で使用する際に、図2と同様であるが、物体感知センサユニット5の感知センサ13が鳥獣を感知すると物体感知センサユニット5の回路が作動し、スイッチ制御信号の指令でスイッチ10をオン作動して音声発生ユニット11及び発光ユニット19の回路を同時に作動し、スピーカ12から音声を拡大してその音で鳥獣を威嚇して追い払い、同時に発光体20からキセノン等の閃光を発生し、音声と閃光とで威嚇して鳥獣を寄せつけないようにする。

【0019】また、夜間等の暗いときは光センサ8が光を感知しないので、光センサユニット7の回路は作動せず、スイッチ制御信号が指令を発しないため、スイッチ4がオフとなり、音声発生回路9を遮断し、音声発生ユニット11及び発光ユニット19が作動しないから、スピーカ12から音声を発生せず、また発光体20からの閃光をも発生しないから、夜間に騒音や閃光を発生させることはない。

【0020】さらに、この実施例1及び2の鳥獣害防止具T、T'は、物体を感知する感知センサ13を互いに位置と方向を違えて複数取り付けられているため、上向きに取り付けた感知センサ13は、上空から飛来して接近する鳥を感知し、下向きに取り付けた感知センサ13は地面上を接近して来る獣を感知するから、田畑で作られる農作物の鳥獣害を確実に防止することができる。

【0021】

【発明の効果】以上に述べたように本発明に係わる鳥獣

害防止具は、その形体が鳥獣をおどすかかしの形をしていて、かかしと同じように田畑のどこへも自由に移動して直立させて使用することができ、上空から飛来して接近する鳥や、地面上から接近する獣を残さず物体感知センサにより感知して、威嚇音を発し、又は威嚇音と閃光とを同時に発して鳥獣を追い払い、農作物が鳥獣害より受ける被害を確実に防止することができる。しかも、これらの威嚇音や閃光は光センサユニットが夜間には、光を感知しないため、夜間に騒音や光による公害を発生させることはない。

【図面の簡単な説明】

【図1】本発明に係わる鳥獣害防止具Tの一実施例を示した外観斜視図。

【図2】同上電気回路の概略を示すブロック図。

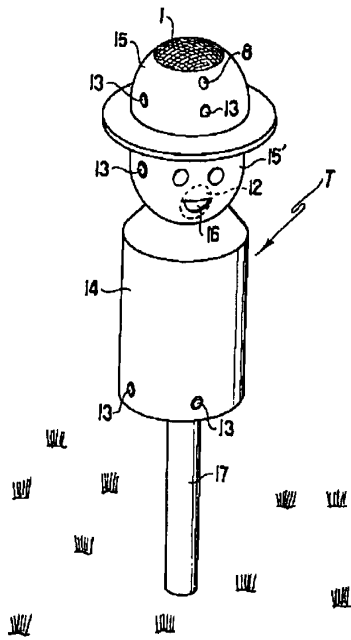
【図3】本発明に係わる鳥獣害防止具T'の他の実施例を示した外観斜視図。

【図4】同上電気回路の概略を示すブロック図。

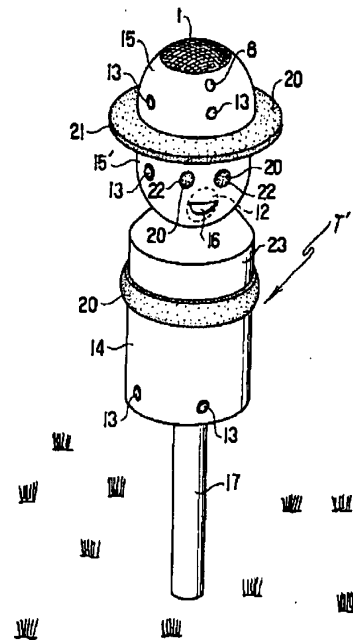
【符号の説明】

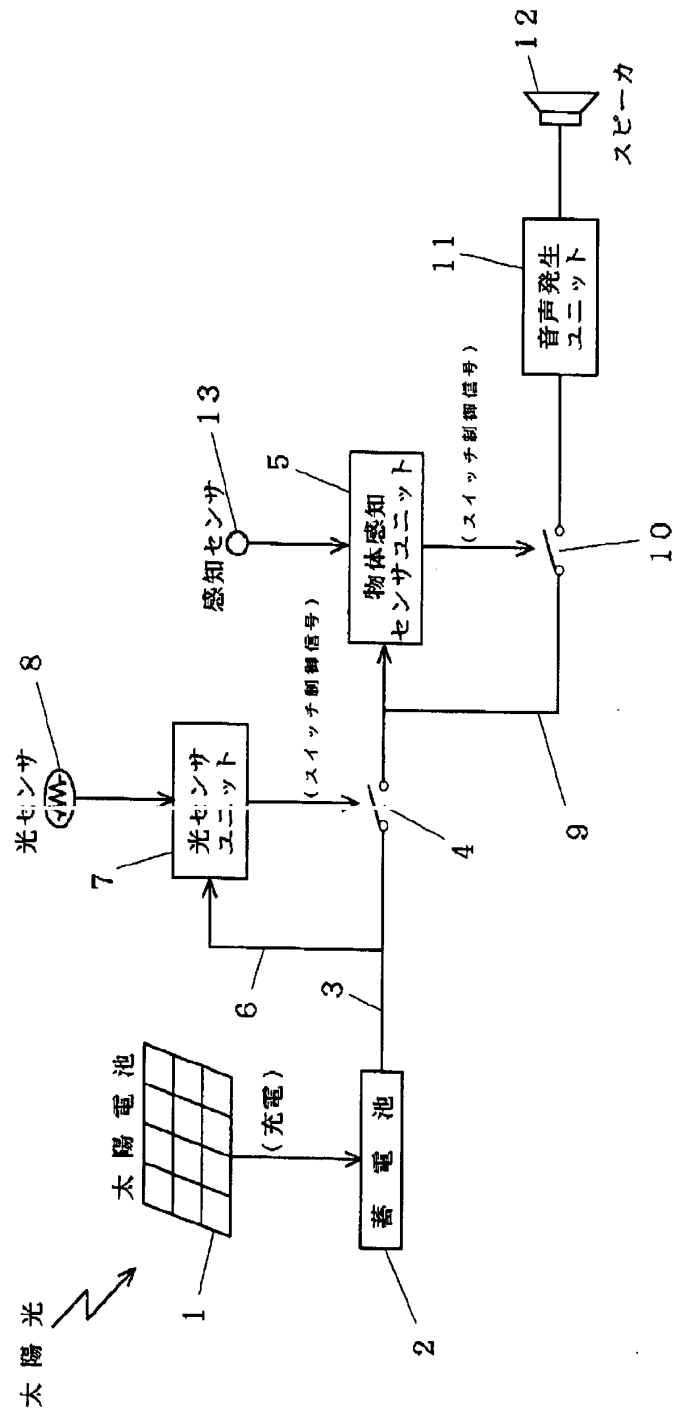
1	太陽電池
2	蓄電池
5	物体感知センサユニット
7	光センサユニット
8	光センサ
11	音声発生ユニット
12	スピーカ
13	感知センサ
14	人形体
15	帽子
19	発光ユニット
20	発光体

【図1】

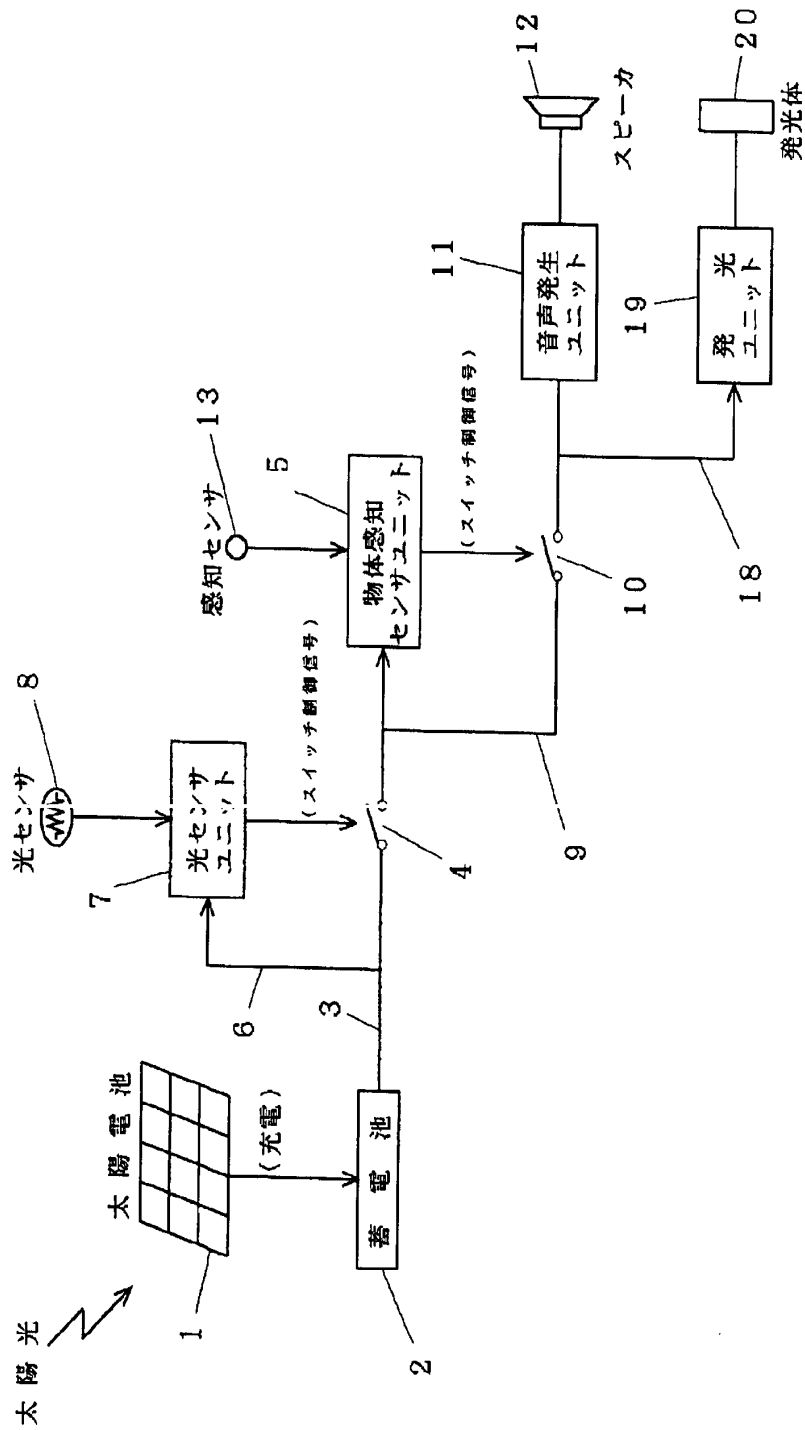


【図3】





【図2】



【図4】

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CLAIMS

[Claim(s)]

[Claim 1] The appearance configuration imitated in the scarecrow to nothing and the substrate prepared in this doll inside of the body while preparing the solar battery in the head of the doll object which formed the interior in midair The photosensor unit which distinguishes day and night, a body sensing sensor unit, and the electrical circuit substrate possessing the voice generating unit, Form the battery charged with the electromotive force of the aforementioned solar battery, and the circuit of the aforementioned photosensor unit is operated by using this battery as a power supply. It is made for the circuit of the aforementioned body sensing sensor unit to operate only in daytime because this photosensor unit senses light. The wildlife damage prevention implement constituted so that intimidation sound might be made to utter from the loudspeaker which the circuit of a voice generating unit operated by having used the aforementioned battery as the power supply because the sensing sensor formed in some doll objects senses a wildlife, and was connected to the voice generating unit.

[Claim 2] The appearance configuration imitated in the scarecrow to nothing and the substrate prepared in this doll inside of the body while preparing the solar battery in the head of the doll object which formed the interior in midair The electrical circuit substrate possessing the photosensor unit which distinguishes day and night, the body sensing sensor unit, and a voice generating unit and a luminescence unit, Form the battery charged with the electromotive force of the aforementioned solar battery, operate the circuit of the aforementioned photosensor unit by using this battery as a power supply, and it is made for the aforementioned body sensing sensor unit to operate only in daytime because this photosensor unit senses light. While making intimidation sound utter from the loudspeaker which the circuit of a voice generating unit and a luminescence unit operated by having used the aforementioned battery as the power supply because the sensing sensor formed in some doll objects senses a wildlife, and was connected to the voice generating unit The wildlife damage prevention implement constituted so that a flash might be generated from the emitter linked to the luminescence unit.

[Claim 3] The wildlife damage prevention implement according to claim 1 or 2 which attached in the head or drum section of a doll object two or more sensing sensors which sense a body.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] this invention relates to the wildlife damage prevention implement used in order for beasts, such as a wild bird, and ****, a fox, a raccoon dog, a wild boar, to fly to fields, an orchard, etc. or to prevent approaching and damaging crops.

[0002]

[Description of the Prior Art] Although standing a scarecrow to fields is performed in order to threaten a wildlife and to protect the damage from the former, since these scarecrows only merely stand, it perceives that people's form is not a man even if it is carrying out, and without being afraid, it ignores and a wildlife approaches. Moreover, apart from such a scarecrow, although rotating a wind mill and threatening a wildlife is also performed, the effect is seldom demonstrated.

[0003]

[Problem(s) to be Solved by the Invention] Then, this invention is made in view of such the conventional technology, and it aims at offering the wildlife damage prevention implement it made not generate the pollution problem by noise or light to a private house as personifies a scarecrow, prevents coming flying and approach of a wildlife according to the synergism and moreover does not make generate intimidation sound and a flash at night by making it make a scarecrow generate intimidation sound and a flash.

[0004]

[Means for Solving the Problem] In order to attain this purpose, the wildlife damage prevention implement concerning this invention The appearance configuration imitated in the scarecrow nothing and the substrate prepared in this doll inside of the body while preparing the solar battery in the head of the doll object which formed the interior in midair The photosensor unit which distinguishes day and night, a body sensing sensor unit, and the electrical circuit substrate possessing the voice generating unit, Form the battery charged with the electromotive force of the aforementioned solar battery, and the circuit of the aforementioned photosensor unit is operated by using this battery as a power supply. It is made for the circuit of the aforementioned body sensing sensor unit to operate only in daytime because this photosensor unit senses light. The circuit of a voice generating unit operates by using the aforementioned battery as a power supply because the sensing sensor formed in some doll objects senses a wildlife, and it constitutes so that intimidation sound may be made to utter from the loudspeaker linked to the voice generating unit.

[0005] The appearance configuration imitated in the scarecrow moreover, to nothing and the substrate prepared in this doll inside of the body while preparing the solar battery in the head of the doll object which formed the interior in midair The electrical circuit substrate possessing the photosensor unit which distinguishes day and night, the body sensing sensor unit, and a voice generating unit and a luminescence unit, Form the battery charged with the electromotive force of the aforementioned solar battery, and the circuit of the aforementioned photosensor unit is operated by using this battery as a power supply. It is made for the circuit of the aforementioned body sensing sensor unit to operate

only in daytime because this photosensor unit senses light. While making intimidation sound utter from the loudspeaker which the circuit of a voice generating unit and a luminescence unit operated by having used the aforementioned battery as the power supply because the sensing sensor formed in some doll objects senses a wildlife, and was connected to the voice generating unit It constitutes so that a flash may be generated from the emitter linked to the luminescence unit.

[0006] Moreover, it constitutes so that two or more aforementioned body sensing sensors may be attached in the head or drum section of a doll object.

[0007]

[Function] If it operates while a photosensor unit senses light, and the sensing sensor of a body sensing SANSA unit senses a wildlife, the sensing sensor which senses a body operates the circuit of a voice generating unit, from a loudspeaker, will emit intimidation sound and will drive off a wildlife. And the circuit of a photosensor unit becomes off, the power supply of a voice generating unit is intercepted automatically, and generating of noise is prevented night.

[0008] Moreover, since the sensing sensor which senses a body is operating while the photosensor unit senses light, if a sensing sensor senses a wildlife, it will operate the circuit of a voice generating unit and a luminescence unit, will emit intimidation sound and a flash, and will drive off a wildlife. And since the circuit of a photosensor unit is not turned on night, the power supply of a voice generating unit and a luminescence unit is intercepted automatically, generating of loudspeaker sound or a flash is stopped and the noise pollution to a private house is prevented.

[0009] Moreover, it senses without seeing and missing the bird and beast which come flying from a different direction by arranging in the head or drum section of a doll object two or more sensing sensors which sense a body, intimidation sound and a flash are generated, and the damage from a wildlife is prevented.

[0010]

[Example 1] One example of this invention is explained with a drawing below. Drawing 2 is the circuit block diagram of the wildlife damage prevention implement T shown in drawing 1. In drawing 2, 1 is a solar battery which collects sunlight and a battery 2 stores electricity sunlight with the electromotive force of this solar battery 1. The body sensing sensor unit 5 is connected to the body sensing circuit 3 linked to this battery 2 through the switch 4 which carries out an on-off operation. Furthermore, the photosensor circuit 6 was formed in the middle of the body sensing circuit 3 through the switch 4, and the photosensor unit 7 is connected. The photosensor 8 which distinguishes day and night is connected to this photosensor unit 7, and it is made to make it carry out the ON operation of the aforementioned switch 4 with the switch control signal which the circuit of the photosensor unit 7 is operated and it is ordered from this photosensor unit 7, when this photosensor 8 senses the quantity of light of a constant rate.

[0011] Furthermore, the voice generating circuit 9 is formed in the switch 4 of the aforementioned body sensing circuit 3, and the middle of the body sensing sensor unit 5, the voice generating unit 11 is connected to this voice generating circuit 9 through the switch 10 which carries out an on-off operation, and a loudspeaker 12 is connected to this voice generating unit 11. Voice is generated from a loudspeaker 12, and a wildlife is threatened, and it drives [if the sensing sensor 13 of the aforementioned body sensing sensor unit 5 senses a wildlife, the circuit of the body sensing sensor unit 5 will operate, the ON operation of the aforementioned switch 10 is carried out with the switch control signal which it is ordered from the sensing sensor 13, and the circuit of the voice generating unit 11 is operated, and] off, and is made not to allow it to come near. The aforementioned voice demonstrates an effect by compounding two or more birds and the cry of a savage beast, and being made.

[0012] Moreover, since voice is not generated from the loudspeaker 12 which the circuit of the photosensor unit 7 was not turned on in order that a photosensor 8 might not sense light, when night etc. was dark, but the circuit 9 changed [in order not to send a switch control signal, the switch 4 became off,] into the state where it was intercepted, and was connected to the voice generating unit

11, noise is not generated at night. In addition, although the battery 2 is used as a power supply in drawing 2, it is made to compensate the sag of a battery 2 by power supplies other than the sunlight cell which is not illustrated.

[0013] Drawing 1 shows the appearance of the wildlife damage prevention implement T which carried out the interior of what was shown as a circuit block diagram in one, and unit-ized it to drawing 2. A hat 15 is put on the head of the doll object 14 which formed in nothing the appearance configuration imitated in the scarecrow, and formed the interior in midair, a solar battery 1 is attached in the crowning of this hat 15, and further, suitably, while attaching two or more sensing sensors 13 of the drum section 23 of a hat 15 and the doll object 14 which change a position and a direction in a part and sense a body, a photosensor 8 is formed in a hat 15. Moreover, it is a screw from the inside of the doll object 14 about a loudspeaker 12 in the position equivalent to the mouth 16 of face 15' of the doll object 14, and is ***** . And the circuit unit which becomes the substrate prepared in the interior of the hollow of the doll object 14 from a battery 2, the body sensing circuit 3 and the photosensor circuit 6, and the voice generating circuit 9 is arranged. Thus, the wildlife damage prevention implement T constituted thrusts and uprights the pile 17 which protruded on the soffit of the doll object 14 in the earth, and is used.

[0014] And any of the sensing sensor 13 which senses two or more bodies with which the bird which comes flying and approaches attached the air upward at the hat 15 of the doll object 14 they are senses. Moreover, any of the sensing sensor 13 which senses two or more bodies installed downward they are senses the beast which approaches a ground top on the doll object 14. The ON operation of the switch 10 is carried out with a switch control signal by instructions of the sensed sensing sensor 13, the circuit of the voice generating unit 11 is operated, intimidation voice is uttered from a loudspeaker 12, a wildlife is threatened and driven off with the voice, and the damage of the wildlife which damages agricultural products is prevented.

[0015] Moreover, since the photosensor 8 prepared in the hat 15 senses a solar light, a photosensor unit is operated and the switch 4 of the body sensing circuit 3 is turned on only daytime, Although light is sensed by the instructions from a photosensor 8, the wildlife coming flying is sensed by the sensing sensor 13 and voice is generated from a loudspeaker 12 The noise of night is prevented [if night comes,] in order that it may become off switching [of the body sensing circuit 3] it in order that a photosensor 8 may not sense light, the voice generating unit 11 may not operate, and a loudspeaker 12 may not utter voice.

[0016]

[Example 2] Drawing 4 is the circuit block diagram of wildlife damage prevention implement T' shown in drawing 2, the portion which attached a sign 1 or 13 with this circuit block diagram is constituted identically to the circuit block diagram shown in aforementioned drawing 2, and explanation here is omitted. In drawing 4, the luminescence circuit 18 was formed further in the switch 10 of the voice generating circuit 9, and the middle of the voice generating unit 11, the luminescence unit 19 was connected to this luminescence circuit 18, and the luminescence section 20 which used the xenon sphere etc. for this luminescence unit 19 is connected.

[0017] This wildlife damage prevention implement T' attaches a solar battery 1 in the crowning of the hat 15 put on the head of the doll object 14 imitated in the scarecrow of the same appearance as the aforementioned wildlife damage prevention implement T, and further, suitably, it forms a photosensor 8 in a hat 15 while it attaches two or more some sensing sensors 13 of a hat 15 and a fuselage 23 which change a position and a direction in a part and sense a body. Moreover, the loudspeaker 12 is attached in the position equivalent to the mouth 16 of face 15' of the doll object 14 on the screw from the interior of the doll object 14. And an emitter 20 is attached in a part of fuselage 23 of the flange 21 of a hat 15, an eye 22, and the doll object 14. And the circuit unit which becomes the substrate prepared in the interior of the hollow of the doll object 14 from a battery 2, the body sensing circuit 3 and the photosensor circuit 6, the voice generating circuit 9, and the luminescence circuit 18 again is arranged.

[0018] And although wildlife damage prevention implement T' is the same as that of drawing 2 in case it is used in the state which shows in drawing 3 If the sensing sensor 13 of the body sensing sensor unit 5 senses a wildlife, the circuit of the body sensing sensor unit 5 will operate. Carry out the ON operation of the switch 10 by instructions of a switch control signal, and the circuit of the voice generating unit 11 and the luminescence unit 19 is operated simultaneously. Voice is expanded from a loudspeaker 12, a wildlife is threatened and driven off to the sound, flashes, such as a xenon, are simultaneously generated from an emitter 20, and it threatens by voice and the flash, and is made to keep a wildlife at bay.

[0019] Moreover, since a photosensor 8 does not sense light when night etc. is dark, the circuit of the photosensor unit 7 does not operate. ** and the switch 4 which do not emit instructions become off, and a switch control signal intercepts the voice generating circuit 9. Since voice is not generated from a loudspeaker 12 since the voice generating unit 11 and the luminescence unit 19 do not operate, and the flash from an emitter 20 is not generated, either, neither noise nor a flash is generated at night.

[0020] Furthermore, the sensing sensor 13 which attached upward since the wildlife damage prevention implement T of these examples 1 and 2 and T' changed the position and the direction mutually and have attached two or more sensing sensors 13 which sense a body senses the bird which comes flying and approaches from the sky, and since the sensing sensor 13 attached downward senses the beast which approaches a ground top, it can prevent certainly the wildlife damage of the agricultural products made in fields.

[0021]

[Effect of the Invention] As stated above, the wildlife damage prevention implement concerning this invention It can use it, the form's moving freely like a scarecrow anywhere in fields, and making [having the form of the scarecrow which threatens a wildlife, and] it able to stand straight. It comes flying from the sky, and it can leave neither the bird which approaches, nor the beast which approaches from the ground, but it can sense by the body sensing sensor, and intimidation sound can be emitted, or intimidation sound and a flash can be emitted simultaneously, a wildlife can be driven off, and the damage which agricultural products suffer [wildlife] can be prevented certainly. And as for these intimidation sound or flashes, a photosensor unit does not generate the pollution by noise or light at night in order not to sense light at night.

[Translation done.]

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TECHNICAL FIELD

[Industrial Application] this invention relates to the wildlife damage prevention implement used in order for beasts, such as a wild bird, and ****, a fox, a raccoon dog, a wild boar, to fly to fields, an orchard, etc. or to prevent approaching and damaging crops.

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PRIOR ART

[Description of the Prior Art] Although standing a scarecrow to fields is performed in order to threaten a wildlife and to protect the damage from the former, since these scarecrows only merely stand, it perceives that people's form is not a man even if it is carrying out, and without being afraid, it ignores and a wildlife approaches. Moreover, apart from such a scarecrow, although rotating a wind mill and threatening a wildlife is also performed, the effect is seldom demonstrated.

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EFFECT OF THE INVENTION

[Effect of the Invention] The wildlife damage prevention implement concerning [as stated above] this invention, It can use it, the form's moving freely like a scarecrow anywhere in fields, and making [having the form of the scarecrow which threatens a wildlife, and] it able to stand straight. It comes flying from the sky, and it can leave neither the bird which approaches, nor the beast which approaches from the ground, but it can sense by the body sensing sensor, and intimidation sound can be emitted, or intimidation sound and a flash can be emitted simultaneously, a wildlife can be driven off, and the damage which agricultural products suffer [wildlife] can be prevented certainly. And as for these intimidation sound or flashes, a photosensor unit does not generate the pollution by noise or light at night in order not to sense light at night.

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] Then, this invention is made in view of such the conventional technology, and it aims at offering the wildlife damage prevention implement it made not generate the pollution problem by noise or light to a private house as personifies a scarecrow, prevents coming flying and approach of a wildlife according to the synergism and moreover does not make generate intimidation sound and a flash at night by making it make a scarecrow generate intimidation sound and a flash.

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MEANS

[Means for Solving the Problem] In order to attain this purpose, the wildlife damage prevention implement concerning this invention The appearance configuration imitated in the scarecrow nothing and the substrate prepared in this doll inside of the body while preparing the solar battery in the head of the doll object which formed the interior in midair The photosensor unit which distinguishes day and night, a body sensing sensor unit, and the electrical circuit substrate possessing the voice generating unit, Form the battery charged with the electromotive force of the aforementioned solar battery, and the circuit of the aforementioned photosensor unit is operated by using this battery as a power supply. It is made for the circuit of the aforementioned body sensing sensor unit to operate only in daytime because this photosensor unit senses light. The circuit of a voice generating unit operates by using the aforementioned battery as a power supply because the sensing sensor formed in some doll objects senses a wildlife, and it constitutes so that intimidation sound may be made to utter from the loudspeaker linked to the voice generating unit.

[0005] The appearance configuration imitated in the scarecrow moreover, to nothing and the substrate prepared in this doll inside of the body while preparing the solar battery in the head of the doll object which formed the interior in midair The electrical circuit substrate possessing the photosensor unit which distinguishes day and night, the body sensing sensor unit, and a voice generating unit and a luminescence unit, Form the battery charged with the electromotive force of the aforementioned solar battery, and the circuit of the aforementioned photosensor unit is operated by using this battery as a power supply. It is made for the circuit of the aforementioned body sensing sensor unit to operate only in daytime because this photosensor unit senses light. While making intimidation sound utter from the loudspeaker which the circuit of a voice generating unit and a luminescence unit operated by having used the aforementioned battery as the power supply because the sensing sensor formed in some doll objects senses a wildlife, and was connected to the voice generating unit It constitutes so that a flash may be generated from the emitter linked to the luminescence unit.

[0006] Moreover, it constitutes so that two or more aforementioned body sensing sensors may be attached in the head or drum section of a doll object.

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OPERATION

[Function] If it operates while a photosensor unit senses light, and the sensing sensor of a body sensing SANSA unit senses a wildlife, the sensing sensor which senses a body operates the circuit of a voice generating unit, from a loudspeaker, will emit intimidation sound and will drive off a wildlife. And the circuit of a photosensor unit becomes off, the power supply of a voice generating unit is intercepted automatically, and generating of noise is prevented night.

[0008] Moreover, since the sensing sensor which senses a body is operating while the photosensor unit senses light, if a sensing sensor senses a wildlife, it will operate the circuit of a voice generating unit and a luminescence unit, will emit intimidation sound and a flash, and will drive off a wildlife. And since the circuit of a photosensor unit is not turned on night, the power supply of a voice generating unit and a luminescence unit is intercepted automatically, generating of loudspeaker sound or a flash is stopped and the noise pollution to a private house is prevented.

[0009] Moreover, it senses without seeing and missing the bird and beast which come flying from a different direction by arranging in the head or drum section of a doll object two or more sensing sensors which sense a body, intimidation sound and a flash are generated, and the damage from a wildlife is prevented.

[0010]

[Example 1] One example of this invention is explained with a drawing below. Drawing 2 is the circuit block diagram of the wildlife damage prevention implement T shown in drawing 1. In drawing 2, 1 is a solar battery which collects sunlight and a battery 2 stores electricity sunlight with the electromotive force of this solar battery 1. The body sensing sensor unit 5 is connected to the body sensing circuit 3 linked to this battery 2 through the switch 4 which carries out an on-off operation. Furthermore, the photosensor circuit 6 was formed in the middle of the body sensing circuit 3 through the switch 4, and the photosensor unit 7 is connected. The photosensor 8 which distinguishes day and night is connected to this photosensor unit 7, and it is made to make it carry out the ON operation of the aforementioned switch 4 with the switch control signal which the circuit of the photosensor unit 7 is operated and it is ordered from this photosensor unit 7, when this photosensor 8 senses the quantity of light of a constant rate.

[0011] Furthermore, the voice generating circuit 9 is formed in the switch 4 of the aforementioned body sensing circuit 3, and the middle of the body sensing sensor unit 5, the voice generating unit 11 is connected to this voice generating circuit 9 through the switch 10 which carries out an on-off operation, and a loudspeaker 12 is connected to this voice generating unit 11. Voice is generated from a loudspeaker 12, and a wildlife is threatened, and it drives [if the sensing sensor 13 of the aforementioned body sensing sensor unit 5 senses a wildlife, the circuit of the body sensing sensor unit 5 will operate, the ON operation of the aforementioned switch 10 is carried out with the switch control signal which it is ordered from the sensing sensor 13, and the circuit of the voice generating unit 11 is operated, and] off, and is made not to allow it to come near. The aforementioned voice demonstrates an effect by compounding two or more birds and the cry of a savage beast, and being made.

[0012] Moreover, since voice is not generated from the loudspeaker 12 which the circuit of the photosensor unit 7 was not turned on in order that a photosensor 8 might not sense light, when night etc. was dark, but the circuit 9 changed [in order not to send a switch control signal, the switch 4 became off,] into the state where it was intercepted, and was connected to the voice generating unit 11, noise is not generated at night. In addition, although the battery 2 is used as a power supply in drawing 2 , it is made to compensate the sag of a battery 2 by power supplies other than the sunlight cell which is not illustrated.

[0013] Drawing 1 shows the appearance of the wildlife damage prevention implement T which carried out the interior of what was shown as a circuit block diagram in one, and unit-ized it to drawing 2 . A hat 15 is put on the head of the doll object 14 which formed in nothing the appearance configuration imitated in the scarecrow, and formed the interior in midair, a solar battery 1 is attached in the crowning of this hat 15, and further, suitably, while attaching two or more sensing sensors 13 of the drum section 23 of a hat 15 and the doll object 14 which change a position and a direction in a part and sense a body, a photosensor 8 is formed in a hat 15. Moreover, it is a screw from the inside of the doll object 14 about a loudspeaker 12 in the position equivalent to the mouth 16 of face 15' of the doll object 14, and is *****. And the circuit unit which becomes the substrate prepared in the interior of the hollow of the doll object 14 from a battery 2, the body sensing circuit 3 and the photosensor circuit 6, and the voice generating circuit 9 is arranged. Thus, the wildlife damage prevention implement T constituted thrusts and uprights the pile 17 which protruded on the soffit of the doll object 14 in the earth, and is used.

[0014] And any of the sensing sensor 13 which senses two or more bodies with which the bird which comes flying and approaches attached the air upward at the hat 15 of the doll object 14 they are senses. Moreover, any of the sensing sensor 13 which senses two or more bodies installed downward they are senses the beast which approaches a ground top on the doll object 14. The ON operation of the switch 10 is carried out with a switch control signal by instructions of the sensed sensing sensor 13, the circuit of the voice generating unit 11 is operated, intimidation voice is uttered from a loudspeaker 12, a wildlife is threatened and driven off with the voice, and the damage of the wildlife which damages agricultural products is prevented.

[0015] Moreover, since the photosensor 8 prepared in the hat 15 senses a solar light, a photosensor unit is operated and the switch 4 of the body sensing circuit 3 is turned on only daytime, Although light is sensed by the instructions from a photosensor 8, the wildlife coming flying is sensed by the sensing sensor 13 and voice is generated from a loudspeaker 12 The noise of night is prevented [if night comes,] in order that it may become off switching [of the body sensing circuit 3] it in order that a photosensor 8 may not sense light, the voice generating unit 11 may not operate, and a loudspeaker 12 may not utter voice.

[0016]

[Example 2] Drawing 4 is the circuit block diagram of wildlife damage prevention implement T' shown in drawing 2 , the portion which attached a sign 1 or 13 with this circuit block diagram is constituted identically to the circuit block diagram shown in aforementioned drawing 2 , and explanation here is omitted. In drawing 4 , the luminescence circuit 18 was formed further in the switch 10 of the voice generating circuit 9, and the middle of the voice generating unit 11, the luminescence unit 19 was connected to this luminescence circuit 18, and the luminescence section 20 which used the xenon sphere etc. for this luminescence unit 19 is connected.

[0017] This wildlife damage prevention implement T' attaches a solar battery 1 in the crowning of the hat 15 put on the head of the doll object 14 imitated in the scarecrow of the same appearance as the aforementioned wildlife damage prevention implement T, and further, suitably, it forms a photosensor 8 in a hat 15 while it attaches two or more some sensing sensors 13 of a hat 15 and a fuselage 23 which change a position and a direction in a part and sense a body. Moreover, the loudspeaker 12 is attached in the position equivalent to the mouth 16 of face 15' of the doll object 14 on the screw from the interior of the doll object 14. And an emitter 20 is attached in a part of fuselage

23 of the flange 21 of a hat 15, an eye 22, and the doll object 14. And the circuit unit which becomes the substrate prepared in the interior of the hollow of the doll object 14 from a battery 2, the body sensing circuit 3 and the photosensor circuit 6, the voice generating circuit 9, and the luminescence circuit 18 again is arranged.

[0018] And although wildlife damage prevention implement T' is the same as that of drawing 2 in case it is used in the state which shows in drawing 3 If the sensing sensor 13 of the body sensing sensor unit 5 senses a wildlife, the circuit of the body sensing sensor unit 5 will operate. Carry out the ON operation of the switch 10 by instructions of a switch control signal, and the circuit of the voice generating unit 11 and the luminescence unit 19 is operated simultaneously. Voice is expanded from a loudspeaker 12, a wildlife is threatened and driven off to the sound, flashes, such as a xenon, are simultaneously generated from an emitter 20, and it threatens by voice and the flash, and is made to keep a wildlife at bay.

[0019] Moreover, since a photosensor 8 does not sense light when night etc. is dark, the circuit of the photosensor unit 7 does not operate. ** and the switch 4 which do not emit instructions become off, and a switch control signal intercepts the voice generating circuit 9. Since voice is not generated from a loudspeaker 12 since the voice generating unit 11 and the luminescence unit 19 do not operate, and the flash from an emitter 20 is not generated, either, neither noise nor a flash is generated at night.

[0020] Furthermore, the sensing sensor 13 which attached upward since the wildlife damage prevention implement T of these examples 1 and 2 and T' changed the position and the direction mutually and has attached two or more sensing sensors 13 which sense a body senses the bird which comes flying and approaches from the sky, and since the sensing sensor 13 attached downward senses the beast which approaches a ground top, it can prevent certainly the wildlife damage of the agricultural products made in fields.

[Translation done.]

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] The appearance perspective diagram having shown one example of the wildlife damage prevention implement T concerning this invention.

[Drawing 2] The block diagram showing the outline of an electrical circuit same as the above.

[Drawing 3] The appearance perspective diagram having shown other examples of wildlife damage prevention implement T' concerning this invention.

[Drawing 4] The block diagram showing the outline of an electrical circuit same as the above.

[Description of Notations]

1 Solar Battery

2 Battery

5 Body Sensing Sensor Unit

7 Photosensor Unit

8 Photosensor

11 Voice Generating Unit

12 Loudspeaker

13 Sensing Sensor

14 Doll Object

15 Hat

19 Luminescence Unit

20 Emitter

[Translation done.]

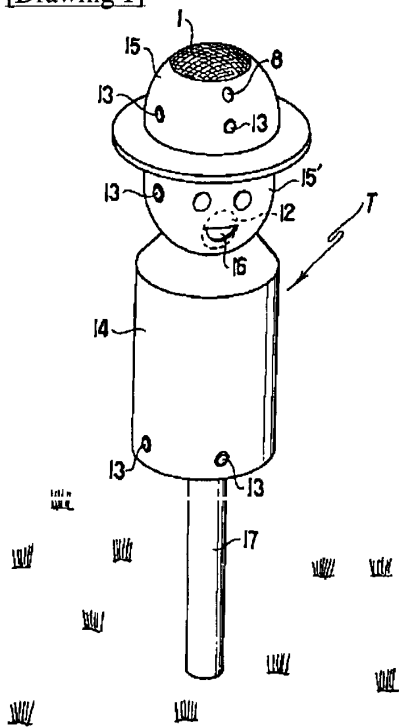
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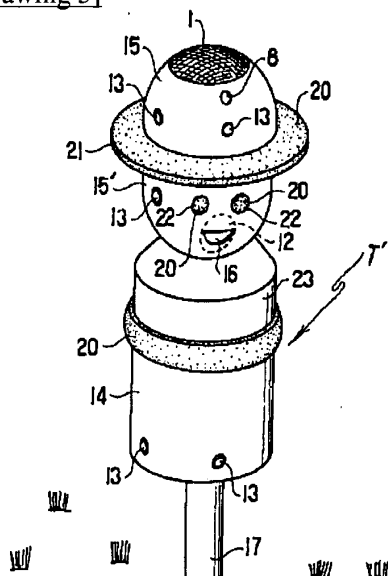
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DRAWINGS

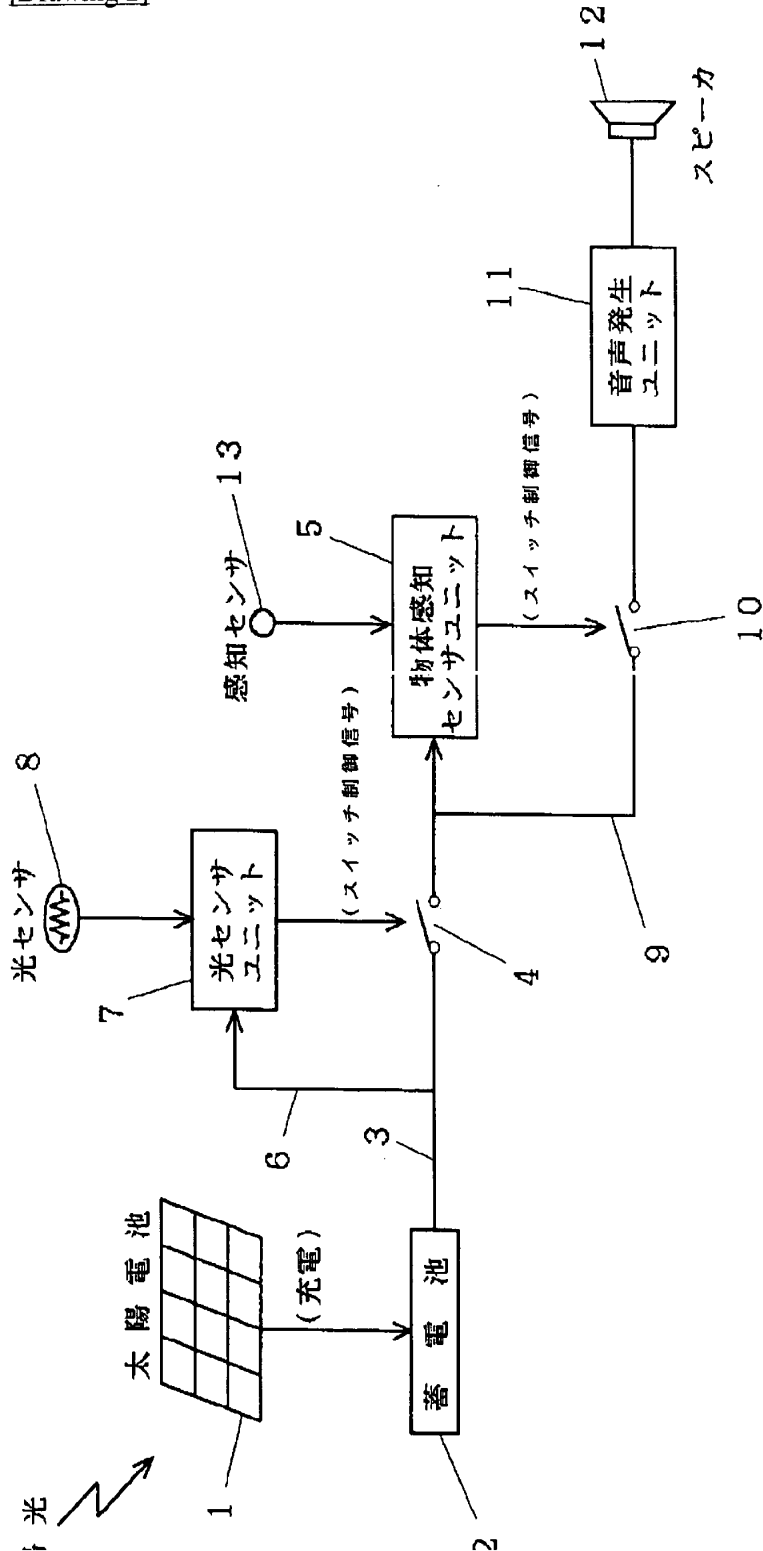
[Drawing 1]



[Drawing 3]

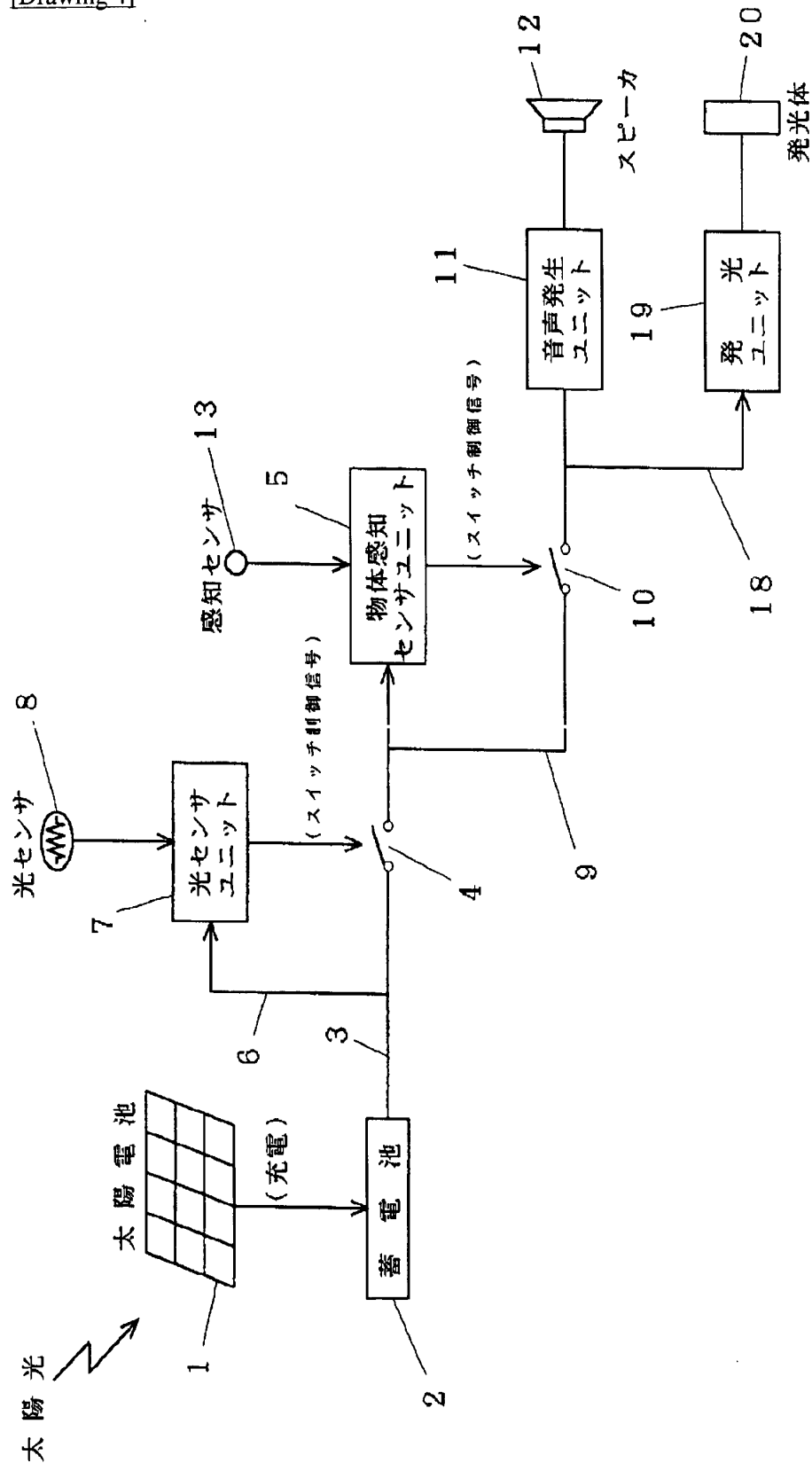


[Drawing 2]



太陽

[Drawing 4]



• [Translation done.]
